

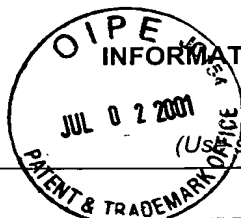
Form PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

077056-0318

SERIAL NO.

09/724,279



INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

APPLICANT

Hillman, Michael D. et al.

FILING DATE

11/28/00

GROUP ART UNIT

3634

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
Bj	A1	6,003,584	12/21/99	Weinreich	160	191	
Bj	A2	6,135,189	10/24/00	Weinreich	160	191	

RECEIVED

JUL 05 2001

TO 3600 MAIL ROOM

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Bj	A3	United States Patent Application 09/229,111 filed on 01/12/99 and listing Robert J. Voss, Kelly L. Murphy, and Otto Kuhar as inventors (20 pages).					
Bj	A4	United States Patent Application 09/835,343 filed on 04/16/01 and listing Otto Kuhar as inventor (24 pages).					
Bj	A5	United States Patent Application 09/450,109 filed on 11/29/99 and listing Zazu Ciuca, Patrick Woods, Roger Palmer, Brian Ruggels, and Otto Kuhar as inventors (31 pages).					

EXAMINER

JOHNSON

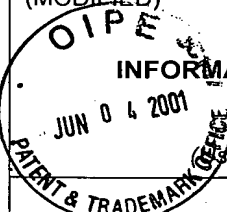
DATE CONSIDERED

4/22/02

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 77056/318		SERIAL NO. 09/724,279	
<div style="position: relative; height: 100px;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border: 1px solid black; border-radius: 50%; text-align: center; color: white; font-weight: bold; font-size: 1.2em;"> OIPF JUN 04 2001 PATENT & TRADEMARK OFFICE </div> </div>				INFORMATION DISCLOSURE CITATION <small>(Use several sheets if necessary)</small>			
				APPLICANT Hillman et al.		FILING DATE 11/28/2000	
U.S. PATENT DOCUMENTS							JUN 06 2001
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE MAIL ROOM APPROPRIATE
by ↓	A1	6,149,094	11/21/2000	Martin et al.	242	373	
	A2	6,095,222	08/01/2000	Voss	160	84.05	
	A3	6,079,471	06/27/00	Kuhar	160	170 R	
	A4	6,056,036	05/02/00	Todd et al.	160	84.05	
	A5	6,029,734	02/29/00	Wang et al.	160	170 R	
	A6	6,024,154	02/15/00	Wang et al.	160	170	
	A7	6,012,506	01/11/00	Wang et al.	160	170	
	A8	5,855,235	01/05/99	Colson et al.	160	121.1	
	A9	5,706,876	01/13/98	Lysyj	160	84.05	
	A10	5,531,257	07/02/96	Kuhar	160	168.1	
	A11	5,485,875	01/23/96	Genova	160	168.1	
	A12	5,482,100	01/09/96	Kuhar	160	170	
	A13	5,413,161	05/09/95	Corazzinni	160	7	
	A14	5,391,967	02/21/95	Domel et al.	318	254	
	A15	5,363,898	11/15/94	Sprague	160	98	
	A16	5,320,154	06/14/94	Colson et al.	160	121.1	
	A17	5,318,090	06/07/94	Chen	160	171	
FOREIGN PATENT DOCUMENTS							
	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION YES NO
by ↓	A18	2 262 324 A	06/16/93	United Kingdom	—		X
	A19	DE 40 03 218 A1	08/14/91	Germany	—		X
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER <i>J. Hansen</i>				DATE CONSIDERED <i>4/22/02</i>			
* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.							

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 77056/318		SERIAL NO. 09/724,279	
INFORMATION DISCLOSURE CITATION (use several sheets if necessary)				APPLICANT Hillman et al.		RECEIVED JUN 06 2001	
				FILING DATE 11/28/2000			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	TO 3600 MAIL ROOM DATE IF APPROPRIATE
Bj	B1	5,313,998	05/24/94	Colson et al.	160	84.1 D	
	B2	5,274,357	12/28/93	Riordan	340	550	
	B3	5,228,491	07/20/93	Rude et al.	160	171	
	B4	5,184,660	02/09/93	Jelic	160	171	
	B5	5,170,830	12/15/92	Coslett	160	84.1	
	B6	5,157,808	10/27/92	Sterner, Jr.	16	197	
	B7	5,141,041	08/25/92	Katz et al.	160	84.1	
	B8	5,133,399	07/28/92	Hiller et al.	160	171	
	B9	5,105,867	04/21/92	Coslett	160	84.1	
	B10	5,103,888	04/14/92	Nakamura	160	171	
	B11	5,083,598	01/28/92	Schon	160	84.1	
	B12	5,067,541	11/26/91	Coslett	160	84.1	
	B13	5,054,162	10/08/91	Rogers	16	198	
	B14	4,984,617	01/15/91	Corey	160	84.1	
	B15	4,955,421	09/11/90	Torti	160	243	
	B16	4,886,102	12/12/89	Debs	160	177	
	B17	4,880,045	11/14/89	Stahler	160	84.1	
	B18	4,877,075	10/31/89	Markowitz	160	84.1	
	B19	4,862,941	09/05/89	Colson	160	84.1	
	B20	4,856,574	08/15/89	Minami et al.	160	168.1	
	B21	4,852,627	08/01/89	Peterson et al.	160	84.1	
	B22	4,726,410	02/23/88	Fresh	160	84 R	
	B23	4,647,488	03/03/87	Schnebly et al.	428	116	
	B24	4,631,217	12/23/86	Anderson	428	118	
	B25	4,625,786	12/02/86	Carter et al.	160	84 R	
	B26	4,623,012	11/18/86	Rude et al.	160	243	
	B27	4,610,292	09/09/86	Hausmann et al.	160	120	
	B28	4,574,864	03/11/86	Tse	160	259	
	B29	4,487,243	12/11/84	Debs	160	168 R	
	B30	4,398,585	08/16/83	Marlow	160	23 R	
	B31	4,344,474	08/17/82	Berman	160	121 R	
	B32	4,326,577	04/27/82	Tse	160	259	

Form PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. 77056/318		SERIAL NO. 09/724,279	
 INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)				APPLICANT Hillman et al.		RECEIVED JUN 06 2001	
				FILING DATE 11/28/2000			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
Bq	C1	4,223,714	09/23/80	Weinreich et al.	160	309	
	C2	4,205,816	06/03/80	Yu	248	266	
	C3	4,157,108	06/05/79	Donofrio	160	263	
	C4	3,817,309	06/18/74	Takazawa	160	84	
	C5	3,756,585	09/04/73	Mihalcheon	267	156	
	C6	3,487,875	01/06/70	H. Shukat et al.	160	84	
	C7	3,485,285	12/23/69	Anderle	160	168	
	C8	3,371,700	03/05/68	Romano	160	84	
	C9	3,358,612	12/19/67	Bleuer	104	173	
	C10	3,194,343	07/13/65	Sindlinger	185	10	
	C11	3,141,497	07/21/64	Griesser	160	170	
	C12	2,874,612	02/24/59	Luboshez	88	60	
	C13	2,824,608	02/25/58	Etten	160	170	
	C14	2,687,769	08/31/54	Gershuny	160	170	
	C15	2,598,887	06/03/52	Burns	160	170	
	C16	2,535,751	12/26/50	Nardulli	160	170	
	C17	2,520,629	08/29/50	Esposito	160	171	
	C18	2,509,033	05/23/50	Carver	160	84	
	C19	2,420,301	05/13/47	Cusumano	160	34	
	C20	2,410,549	11/05/46	Olson	160	34	
	C21	2,390,826	12/11/45	Cohn	160	170	
	C22	2,350,094	05/30/44	Butts	160	114	
	C23	2,325,992	08/03/43	Wirthman	160	29	
	C24	2,324,536	07/20/43	Pratt	160	172	
	C25	2,276,716	03/17/42	Cardona	156	17	
	C26	2,266,160	12/16/41	Burns	156	17	
	C27	2,260,101	10/21/41	De Falco	156	16	
	C28	2,250,106	07/22/41	Lorentzen	156	17	
	C29	2,175,549	10/10/39	Nardulli et al.	156	17	

TO 3600 MAIL ROOM

Form PTO-1449.
(MODIFIED)

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.
77056/318

SERIAL NO. 09/724,279

INFORMATION DISCLOSURE CITATION

APPLICANT

Hillman et al.

FILING DATE

11/28/2000

GROUP ART UNIT

RECEIVED
OUR PART UNIT

~~JUN 06 2001~~

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

[illegible]

Substitute for form 1449B/PTO

Date Submitted: November 2, 2001

Date Submitted: November 2, 2001

(use as many sheets as necessary)

Sheet	1	of	2
-------	---	----	---

Complete if Known

Application Number	09/724,279
Filing Date	11/28/2000
First Named Inventor	Michael D. Hillman
Group Art Unit	3634
Examiner Name	
Attorney Docket Number	077056-0318

Examiner's Initials	No. 1	No. 2	No. 3	No. 4	No. 5	No. 6	No. 7	No. 8	No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20	No. 21	No. 22	No. 23	No. 24	No. 25	No. 26	No. 27	No. 28	No. 29	No. 30	No. 31	No. 32	No. 33	No. 34	No. 35	No. 36	No. 37	No. 38	No. 39	No. 40	No. 41	No. 42	No. 43	No. 44	No. 45	No. 46	No. 47	No. 48	No. 49	No. 50	No. 51	No. 52	No. 53	No. 54	No. 55	No. 56	No. 57	No. 58	No. 59	No. 60	No. 61	No. 62	No. 63	No. 64	No. 65	No. 66	No. 67	No. 68	No. 69	No. 70	No. 71	No. 72	No. 73	No. 74	No. 75	No. 76	No. 77	No. 78	No. 79	No. 80	No. 81	No. 82	No. 83	No. 84	No. 85	No. 86	No. 87	No. 88	No. 89	No. 90	No. 91	No. 92	No. 93	No. 94	No. 95	No. 96	No. 97	No. 98	No. 99	No. 100	No. 101	No. 102	No. 103	No. 104	No. 105	No. 106	No. 107	No. 108	No. 109	No. 110	No. 111	No. 112	No. 113	No. 114	No. 115	No. 116	No. 117	No. 118	No. 119	No. 120	No. 121	No. 122	No. 123	No. 124	No. 125	No. 126	No. 127	No. 128	No. 129	No. 130	No. 131	No. 132	No. 133	No. 134	No. 135	No. 136	No. 137	No. 138	No. 139	No. 140	No. 141	No. 142	No. 143	No. 144	No. 145	No. 146	No. 147	No. 148	No. 149	No. 150	No. 151	No. 152	No. 153	No. 154	No. 155	No. 156	No. 157	No. 158	No. 159	No. 160	No. 161	No. 162	No. 163	No. 164	No. 165	No. 166	No. 167	No. 168	No. 169	No. 170	No. 171	No. 172	No. 173	No. 174	No. 175	No. 176	No. 177	No. 178	No. 179	No. 180	No. 181	No. 182	No. 183	No. 184	No. 185	No. 186	No. 187	No. 188	No. 189	No. 190	No. 191	No. 192	No. 193	No. 194	No. 195	No. 196	No. 197	No. 198	No. 199	No. 200	No. 201	No. 202	No. 203	No. 204	No. 205	No. 206	No. 207	No. 208	No. 209	No. 210	No. 211	No. 212	No. 213	No. 214	No. 215	No. 216	No. 217	No. 218	No. 219	No. 220	No. 221	No. 222	No. 223	No. 224	No. 225	No. 226	No. 227	No. 228	No. 229	No. 230	No. 231	No. 232	No. 233	No. 234	No. 235	No. 236	No. 237	No. 238	No. 239	No. 240	No. 241	No. 242	No. 243	No. 244	No. 245	No. 246	No. 247	No. 248	No. 249	No. 250	No. 251	No. 252	No. 253	No. 254	No. 255	No. 256	No. 257	No. 258	No. 259	No. 260	No. 261	No. 262	No. 263	No. 264	No. 265	No. 266	No. 267	No. 268	No. 269	No. 270	No. 271	No. 272	No. 273	No. 274	No. 275	No. 276	No. 277	No. 278	No. 279	No. 280	No. 281	No. 282	No. 283	No. 284	No. 285	No. 286	No. 287	No. 288	No. 289	No. 290	No. 291	No. 292	No. 293	No. 294	No. 295	No. 296	No. 297	No. 298	No. 299	No. 300	No. 301	No. 302	No. 303	No. 304	No. 305	No. 306	No. 307	No. 308	No. 309	No. 310	No. 311	No. 312	No. 313	No. 314	No. 315	No. 316	No. 317	No. 318	No. 319	No. 320	No. 321	No. 322	No. 323	No. 324	No. 325	No. 326	No. 327	No. 328	No. 329	No. 330	No. 331	No. 332	No. 333	No. 334	No. 335	No. 336	No. 337	No. 338	No. 339	No. 340	No. 341	No. 342	No. 343	No. 344	No. 345	No. 346	No. 347	No. 348	No. 349	No. 350	No. 351	No. 352	No. 353	No. 354	No. 355	No. 356	No. 357	No. 358	No. 359	No. 360	No. 361	No. 362	No. 363	No. 364	No. 365	No. 366	No. 367	No. 368	No. 369	No. 370	No. 371	No. 372	No. 373	No. 374	No. 375	No. 376	No. 377	No. 378	No. 379	No. 380
---------------------	-------	-------	-------	-------	-------	-------	-------	-------	-------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	--------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------	---------

RECEIVED

DEC 03 2001

GROUP 3600

FOREIGN PATENT DOCUMENTS

[illegible]

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
--------------------	-----------------------	--	----------------

Examiner
Signature

Tolson

Date
Considered

4/22/02

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ²See attached Kinds of U.S. Patent Documents. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.

Standard ST. 6). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document.
 *Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. *Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, D.C. 20231.

Form PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.

077056-0318

SERIAL NO.

09/724,279

APPLICANT

Michael D. Hillman et al.

FILING DATE

11/28/2000

GROUP ART UNIT

3634

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
BY	A1	2,609,193	09-02-52	Foster	267	1	

FOREIGN PATENT DOCUMENTS

	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION	
							YES	NO
BY	A2	13,798	07-01-1893	United Kingdom				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

BY	A3	"The Theory and Design of Long-Deflection Constant- Force Spring Elements", by F. A. Votta Jr., Lansdale, PA (12 pages).					

EXAMINER

J. Hansen

DATE CONSIDERED

4/22/02

* EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include any copy of this form with next communication to applicant.